

CORRIGENDUM NO 1 TO TENDER NO KSUDP/PIU-KCH-01(SS)

SI No	Bid Ref.	Description in the Bid Documents	Modifications/Corrections
<b>FINANCIAL BID (VOLUME 4)</b>			
<b>Part I</b>			
1	2	Supplying S&S RCC spun pipes..... <b>confirming</b> to IS 458:1988.....hydraulic testing complete with all lead and lifts.etc complete.	"confirming" to be changed as conforming
2	3	Construction of RCC Manholes.....on either sides ,wooden struts <b>80mm</b> dia at suitable intervals.....	100mm to be used instead of 80 mm
3	7	Supply, conveying ,unloading laying and fixing.....with necessary specials such as <b>collars</b> , Bends /door bends/	Couplings shall be used, instead of collars
4	8	Supply, conveying ,unloading laying and fixing.....with necessary specials such as collars, Bends /door bends/	Couplings shall be used, instead of collars
5	17(i)	Providing 20mm premixed chipping carpet ..... with wire brushes, <b>brass brooms</b> and applying a priming coat	Bass brooms to be used instead of "brass brooms"
<b>Part 3</b>			
6	4	Sinking well as per approved design.....arrangements like <b>banger lighting</b> etc complete	"Banger" to be corrected as "Danger"
7	5	Earthwork Excavation in ordinary soil.....on either sides ,wooden struts <b>80mm</b> dia at suitable intervals.....	100mm to be used instead of 80 mm
8	12&13	Providing and laying Reinforced cement concrete..... <b>12mm to 20mm I.S.I guage of approved gradation hard aggregate</b> .....	"12 mm to 20 mm aggregate of approved quality"
9	15	Providing and laying cement concrete.....using <b>20mm down size jelly, and plastered with cement mortar (1:3) including centering</b> .....	"20 mm size hard broken stone and plastered with cement mortar 1:3, 12 mm thick; including centering"....
10	16,17&18		Jelly should be replaced by broken stone
11	19	Brickwork in cement mortar 1:5 with country burnt bricks <b>19cmx19cmx9 cm</b> for super structure .....	19cmx9cmx9 cm
12	30	<b>Providing and fixing Window of size Anjily wood frame</b> of size.....complete excuding MS grill. as per approved drawings.	Providing and fixing Anjily wood window.....
13	31	<b>Providing and fixing Anjily wood frame Ventilator</b> , with fully glazed shutter.....	Providing and fixing Anjily wood Ventilator.....
<b>Part 4</b>			
14	20	Supply, Delivery at site, erection/installation, testing and commissioning of <b>following capacity DG set</b> along with the Auto Mains Failure (AMF) Panel and a bypass change over switch suitable for the generator capacity (as well as receiving KSEB mains) as per the specifications and as directed by the Engineer-in charge.	" <b>following capacity DG sets</b> suitable for outdoor type along with "

TECHNICAL BID (VOLUME 1)			
15		Letter of Invitation	<b>Revised Letter of invitation attached</b>
16		<b>Abstract of Bid- Amount of Bid security</b>	
17		<b>: Rs.(Indian Rupees 33.0 Lakhs ( INR Thirty Three Lakhs only) in the form of Bank Guarantee issued by a Nationalized Bank in India, which is valid to period of 180 days after bid opening (exact date will be mentioned in the actual bid document)</b>	<b>: Rs.(Indian Rupees 33.0 Lakhs ( INR Thirty three Lakhs only) in the form of unconditional Bank Guarantee, Demand Draft or Term Deposit issued by a Nationalized/Schedule Bank in India, in favour of Project Manager, PIU, Kochi which is valid for a period of 180 days after bid opening</b>
18	Section 2 ITB 7.4		Name of the city is replaced as Kochi instead of Cochin wherever mentioned
19	Section 2 ITB 13.4	<b>Alternative technical solutions is not permitted . However, just before commencement of work or during execution of work, based on the site conditions/data, if additional technical design/solutions are required, it should be submitted in detail with required plan/designs etc.</b>	Alternative technical solutions are not permitted for any work .
20	Section 2 ITB 14.6	<b>The necessity of price adjustment clause is included in section 8 as Annexure 1</b>	Price shall be adjusted in accordance with the provisions of section 8 Annexure 1
21	Section 2 ITB19.1	A bid security be required. The amount and currency of the bid security shall be: The bid security of Rs. 33.00 Lakhs. (Indian rupees Thirty three lakhs only) has to be submitted along with the Technical Proposal in the form of a Bank Guarantee from Nationalised Bank in India and the same is to remain valid for a period of 180 days from the date of opening of bid.	A bid security be required. The amount and currency of the bid security shall be: The bid security of Rs. 33.00 Lakhs. (Indian rupees Thirty three lakhs only) has to be submitted along with the Technical Proposal in the form of a Bank Guarantee, Demand draft or Term deposit issued by a Nationalised Bank in India in favour of Project Manager PIU Kochi which is valid for a period of 180 days after the date of opening of bid.
22	Section 3 (2.3.3)	Using the relevant Forms FIN -3 and FIN - 4 in Section 4 (Bidding Forms) the Bidder must demonstrate access to, or availability of, financial resources such as liquid assets, unencumbered real assets, lines of credit, and other financial means, other than any contractual advance payments, to meet the financial requirements of the contract in the amount of his Bid. As a minimum the Bidder must show that his resources, in terms of at least his latest year's working capital and lines of credit, will be adequate to cover his Bid Price and current work commitments. <b>Bid Capacity = 8 * working Capital + Line of credit - 25% of current commitment should be minimum Indian Rupees 384 million.( Three eighty four only)</b>	Using the relevant Forms FIN -3 and FIN - 4 in Section 4 (Bidding Forms) the Bidder must demonstrate access to, or availability of, financial resources such as liquid assets, unencumbered real assets, lines of credit, and other financial means, other than any contractual advance payments, to meet the financial requirements of the contract in the amount of his Bid. As a minimum the Bidder must show that his resources, in terms of at least his latest year's working capital and lines of credit, will be adequate to cover his Bid Price and current work commitments. <b>Bid Capacity = 7 * working Capital + Line of credit - 40% of current commitment should be minimum Indian Rupees 300 million.( Three hundred million only)</b>
23	Section 3 (2.4.2a)	Participation as contractor, management contractor, or subcontractor, in at least one contracts within the last 10 (Ten) years, each with a value of at least Rs307.2 million (Three hundred and seven point two only) that have been successfully or are substantially completed and that are similar to the proposed works. The similarity shall be based on the physical size, complexity, methods, technology or other characteristics as described in Section 6, Works Requirements	Participation as contractor, management contractor, or subcontractor, in at least one contracts within the last 10 (Ten) years, each with a value of at least Rs <b>264 million</b> (Two hundred and sixty four million only) that have been successfully or are substantially completed and that are similar to the proposed works. The similarity shall be based on the physical size, complexity, methods, technology or other characteristics as described in Section 6, Works Requirements

24	Section 4		Letter of Price Bid is to be removed from the Technical Specification and to be attached to the Financial bid volume
25	Section 8 GCC 1.1 (q)		To be changed as GCC 1.1 (p)
26	Section 8 GCC 1.1 (z)	The Project Manager is Project Manager, Project Implementation Unit Kochi, Kerala Sustainable Urban Development Project. The Engineer means Engineer of the consultant (DSC-2) appointed by the employer to act as the engineer for the purpose of contract, in the case of ADB projects only. In the case of JNNURM projects the Engineer will be the person authorized by the corporation.	The Project Manager is Project Manager, Project Implementation Unit Kochi, Kerala Sustainable Urban Development Project. Kochi Municipal corporation, Kochi. The agreement has to be executed with additional Project Manager ( Water Supply & Sewerage) Superintending Engineer, Kerala Water Authority on Additional charge) ( Project Implementation Unit, Kerala Sustainable Urban Development Project.Kochi Municipal corporation, who is the designated authority to execute the work as incharge of said work for Project Implementation Unit Kochi Kochi Corporation
27	GCC 5.1		Add GCC 5.1 as the Design and Supervision Counsellants Package -2 will act as the representative of the Project Manager / Additional Project Manager in executing the work
28	Section 8 GCC 1.1 (bb)	Location Map	Location map number is 6
29	Section 8 GCC 1.1 (ii)	The Works consist of satisfactory preparation of sites, conducting geo-technical tests,..... pumping mains from PH-8, PH-7, and PH-7 to STP about 3.8 Kms. (Three point eight) of total length.	To be changed as " Work consists of extension of sewerage Syatem - North Kochi - Part -2 ( Zone 6,7, 8&9 ) as described in section 6 - Work Requirements and Bill of Quantities of Price Bid Of the Bid document)"
30	Section 8 GCC 2.3 (i)	The following documents also form part of the Contract: 1) Any other written agreement reached between the employer and contractor further to the award of contract 2) Variation Orders (extra items of excess over agreed quantity) issued during the course of execution of the contract ..... .....	Points 3,4,5&6 to be deleted
31	Section 8 GCC 14.2 (iii)	(iii) The various Data available with the Employer for this contract : 1. Bore logs of three adjoining plots near to the three wet wells. This is just for guidance and final result. The bidder has to inspect, collect data, refer maps wherever available and make his own conclusion before submitting his bid. 2. ....	Change the Clause as " Detailed Project Report prepared by Design and Supervision Consultants except cost estimates"
32	Section 8 GCC 17.1	The following shall be designed by the Contractor: It is obligatory on the part of the contractor to have trial bores to obtain bore log at the proposed wet well sites itself and redesign if, required, .....	Change the Clause as " following shall be Designed by the contractor : None"

**Specifications and Requirements for Electrical works**

33	Item No 2	<p><b>2. Motors:</b></p> <ul style="list-style-type: none"> <li>• Motors shall be of squirrel cage induction type with class F insulation, suitable for required output when line voltage variation is <math>\pm 10\%</math> and frequency variation of <math>\pm 3\%</math> in any combination of this voltage and frequency variation</li> </ul>	<p><b>2. Motors:</b></p> <ul style="list-style-type: none"> <li>• Motors shall be of squirrel cage induction type with class F insulation, suitable for required output when line voltage variation is <math>\pm 10\%</math> and frequency variation of <math>\pm 3\%</math> in any combination of this voltage and "frequency variation ,with <b>Power Factor Improvement, Capacitor</b>"</li> </ul>
34	Item No 3	<p><b>3. Control panel with starter:</b></p> <p>All pump houses will have 3 pumps of equal capacity (2 working and one standby).</p> <p>An auto manual selector switch shall be provided in the control panel for each pump for selecting the mode of operation. An inter lock shall be provided for the following</p>	<p><b>3. Control panel with starter:</b></p> <p>All pump houses will have 3 pumps of equal capacity (2 working and one standby).</p> <p>An auto manual selector switch shall be provided in the control panel for each pump for selecting the mode of operation. An inter lock shall be provided for"the following .<b>All interlocks shall be of fail safe type</b>"</p>
35	Item No 3 (1)	<p>Among other things the panel shall have the following</p> <ol style="list-style-type: none"> <li>1. One four pole <b>Isolator</b> of suitable capacity as incomer to isolate the incoming supply to the panel.</li> </ol>	<p>Among other things the panel shall have the following</p> <ol style="list-style-type: none"> <li>1. One four pole" MCB/MCCB ( MCB upto 63A capacity and MCC B for above 63 A capacity)of suitable capacity as incomer to isolate the incoming supply to the panel.</li> </ol>
36	Item No 3 (5)	<ol style="list-style-type: none"> <li>5. Audio visual indication with Annunciations for pump tripped, wet well low, wet well high, pump dry running and 4 numbers of spare windows.</li> </ol>	<ol style="list-style-type: none"> <li>5. Audio visual indication with Annunciations for pump tripped, wet well low, wet well high, pump dry running ,moisture sensor operation and 4 numbers of spare windows.</li> </ol>
37	Item No 3 (8)	<ol style="list-style-type: none"> <li>6. Control for starting 1st duty pump, 2nd duty pump, and standby pump in case duty pumps fail to start.</li> </ol>	<ol style="list-style-type: none"> <li>6. Control for <b>using capacitor type level probe</b> starting 1st duty pump, 2nd duty pump, and standby pump in case duty pumps fail to start.</li> </ol>
38		<ol style="list-style-type: none"> <li>8. Interlock to prevent 3 pumps starting in stations with 2+1 umps and starting 2 pumps in stations with 1+1 pumps.</li> </ol>	<ol style="list-style-type: none"> <li>8. <b>Fail safe type</b> Interlock to prevent 3 pumps starting in stations with 2+1 umps and starting 2 pumps in stations with 1+1 pumps.</li> </ol>
	<b>Addition</b>		<b>Annexrure I to special Specification attached</b>

## **Annexure I**

### **Format of Escalation Clause**

#### Clause 41 : Price Adjustment

(a) Price adjustment shall be applicable only for labour component and specified materials in specified works and on specified percentage of quoted prices for respective items in price schedule/bill of quantities as per table below:

(b) The conditions for price adjustment shall be as follows:

- i. The amounts payable to the contractor shall be adjusted for rises or falls in the cost of labour and specified materials only, by the addition or deduction of the amounts determined by the formulae prescribed in this Clause. To the extent that full compensation for any rise or fall in costs is not covered by the provisions of this or other Clauses, the Accepted Contract Amount shall be deemed to have included amounts to cover the contingency of other rises and falls in costs.
- ii. Price adjustment shall not be applicable for first 12 months from the date of commencement or proportionate work whichever is later. Price adjustment shall be applicable after 12 months upto the end of Contract period.
- iii. If time of completion is extended due to reasons attributed to the contractor, price adjustment for such extended period shall not be applicable.
- iv. Total price adjustment payable shall be limited to ceiling of 10% of contract price.
- v. Price adjustment shall be payable once in one year and shall be for labour and specified materials supplied in each month based on monthly average of published indices during applicable period. The contractor shall submit the copies of publication for indices in original for verification of claim.
- vi. Irrespective of country of manufacture for specified material, the indices specified in this clause shall be applicable for price adjustment.

(c) Formulae for price adjustment

The price adjustment shall be for value of work done during the period under consideration, which is abbreviated "R" in the formulae below.

i) Adjustment for labour component

Price adjustment for increase or decrease in the cost due to labour shall be paid in accordance with the formula:

$$V_L = 0.85 \times P_1/100 \times R (L_1 - L_o) L_o$$

$V_L$  = Increase or decrease in the cost of work during the period under consideration due to changes in rates for local labour.

$L_o$  = The consumer price index for industrial workers for Alwaye Center (Kerala State) for the month preceding the date of opening of Bids as published by Labour Bureau, Ministry of Labour, Government of India.

$L_1$  = The average consumer price index for industrial workers applicable for Alwaye (Kerala State) for the month under consideration as published by Labour Bureau, Ministry of Labour, Government of India.

$P_1$  = Percentage of Labour component of the work, stipulated in the table under (a)

ii. Adjustment for pipes and specials

Price adjustment for increase or decrease in the cost of BWSC pipes and specials procured by the Contractor shall be paid in accordance with the following formula:

$$V_{cd} = 0.85 \times R [P_{CT}/100(I_{ct1}-I_{ct0})/I_{ct0} + P_{ST}/100(I_{st1}-I_{st0})/I_{st0}]$$

$V_{cd}$  = Increase or decrease in the cost of work during the period under consideration due to changes in rates of Materials

$I_{ct0}$  = The wholesale price index for Cement as on 28 days before the date of opening of Bid as published by the Economic Adviser, Ministry of Commerce and Industry, Government of India, New Delhi,.

$I_{ct1}$  = The monthly average of wholesale price index for Cement for the Period under consideration as published by the Economic Adviser, Ministry of Commerce and Industry, Government of India, New Delhi,.

$I_{st1}$  = The wholesale price index for Steel as on 28 days before the date of opening of bid as published by the Economic Adviser, Ministry of of Commerce and Industry, Government of India, New Delhi.

$I_{st0}$  = The monthly average of wholesale price indices for Steel for the period under consideration as published by the Economic Adviser, Ministry of Commerce and Industry, Government of India, New Delhi,.

$P_{CT}$  = Percentage of cement for the item stipulated in table 1.

$P_{ST}$  = Percentage of steel for the item stipulated in table 1.

Table 1

**RCC Works**

Labour	25%
Materials	
a. Cement	27%
b. Steel	48%

**Pipe laying**

Labour	65%
Materials	
a. Steel	20%
b. Cement	15%

**Note:** The relevant wholesale price indices published by the Economic Adviser, Ministry of Commerce and Industry, Government of India, New Delhi, shall made available by the contractor.

# **Kerala Sustainable Urban Development Project**

(ADB Loan No.2226 - IND)

## **Bidding Documents**

For

**EXTENSION OF SEWERAGE SYSTEM TO NORTH KOCHI PART 2.  
(MANUAL CUM ELECTRONIC BIDDING)**

Contract Package No.KCH-SS-03

National Competitive Bidding – Item Rate Contract

Single-Stage: Two Envelope Bidding

**Issued on: 29-01-2009**

**Invitation for Bids No.: KSUDP/PIU-KCH-01(SS)**

**Employer: The Project Manager, Project Implementation Unit,  
Kerala Sustainable Urban Development Project;  
Kochi Corporation,  
KOCHI  
India**

**Kerala Sustainable Development Project  
Project Implementation Unit  
Kochi Corporation  
KOCHI  
E-mail: piukchksudp@gmail.com**

The Office of :

**Kerala Sustainable Development Project  
Project Implementation Unit  
Kochi Corporation  
KOCHI**

**E-mail: piukchksudp@gmail.com**

**PARTICULARS OF BID**

- |                                 |  |
|---------------------------------|--|
| <b>1. Contract Package No.</b>  | <b>: KCH-SS-03</b>   |
| <b>2. Name of the Work</b>      | <b>EXTENSION OF SEWERAGE SYSTEM TO<br/>NORTH KOCHI PART 2.</b>   |
| <b>3. Bid Security</b>          | <b>: Indian Rupees 33.00 Lakhs (Thirty Three<br/>lakhs only)</b> |
| <b>4. Cost of Bid Documents</b> | <b>: Rupees 25000.00 + VAT @ 12.5%</b>                           |
|                                 | <b>:</b>   |

**Contents of BID Documents:**

**Vol I – Technical Bid Document**

Invitation for Bids

Abstract of BID

**PART –I : BIDDING PROCEDURES**

Section 1 : Instructions to Bidders (ITB)

Section 2 : Bid Data Sheet (BDS)

Section 3 : Evaluation and Qualification Criteria (EQC)

Section 4 : Bidding Forms (BDF)

Section 5 : Eligible Countries(ELC)

**PART II : REQUIREMENTS**

Section 6 : Work Requirements (WRQ)

**PART III : CONDITIONS OF CONTRACT AND CONTRACT FORMS**

Section 7 : General Conditions of Contract (GCC)

Section 8 : Particular Conditions of Contract (PCC)

Section 9 : Contract Forms (COF)

**Volume 2: Technical Specification**

**Volume 3: Drawings**

**Volume 4: Price Bid Document**

Project Implementation Unit  
Kerala Sustainable Urban Development Project  
Kochi Corporation, Kochi

Tel: +91 (484) 2350434; Fax: +91 (484) 2350434  
Email: [piukchksudp@gmail.com](mailto:piukchksudp@gmail.com)

Government of Kerala – Local Self Government Department  
Kerala Sustainable Urban Development Project (KSUDP)

**INVITATION FOR BIDS (NATIONAL COMPETITIVE BIDDING)**

(MANUAL CUM ELECTRONIC BIDDING)

**ADB Loan no: 2226-IND**

**Contract Package No.: KCH-SS-03      Contract Title: Extension of Sewerage System to  
North Kochi Part-2.**

**IFB No.: KSUDP/PIU-KCH /01(SS)**

**Date: 09/03/09**

**Dead line for bids: 24-04-2009 13:00 hrs**

1. India has received a loan from the Asian Development Bank (ADB) towards the cost of Kerala Sustainable Urban Development Project (KSUDP) and it is intended that a part of the proceeds of this loan will be applied to eligible payments under the contract named above to be executed in Kerala State, India. Bidding is open to bidders from eligible source countries of the ADB.
2. Project Implementation Unit, Kerala Sustainable Urban Development Project (KSUDP) for Kochi Corporation, Kerala (**The Employer**) now invites sealed bids from eligible bidders for procurement of the following works.

<b>Contract Package No.</b>	<b>Description of Work</b>	<b>Bid Security Rs. (INR)</b>
<b>KCH-SS-03</b>	<b>EXTENSION OF SEWERAGE SYSTEM TO NORTH KOCHI PART 2.</b>	<b>Rs.33.00Lakhs (Thirty Three Lakhs)</b>

The bid should include all the works included in the contract package. Offers for partial bids will not be considered.

3. Bids are invited through manual/ Electronic Bidding system (e-tender) from eligible Bidders.
4. Only eligible bidders with the qualifications as prescribed in bidding document should participate in the bidding. Bidding documents of the package are uploaded in the KSUDP website [www.ksudp.org](http://www.ksudp.org) for information of the eligibility requirements and the works.

5. National Competitive Bidding will be conducted in accordance with ADB's Single Stage: Two Envelope bidding procedure.
6. Interested bidders may obtain further information from and purchase the Bidding Documents, at our office at Kochi and can contact  
 Project Manager  
 Project Implementation Unit  
 Kerala Sustainable Urban Development Project  
 Kochi Corporation, Kochi  
 Tel: +91 (484) 2350434; Fax: +91 (484) 2350434  
 Email: [piukchksudp@gmail.com](mailto:piukchksudp@gmail.com)
7. A complete set of bidding documents (in duplicate), in the English Language, may be purchased by interested eligible bidders on submission of a written application to PIU, KSUDP, Kochi Corporation, Kochi and on payment of non-refundable fee of Rs.25,000/-(Indian Rupees Twenty Five Thousand only) + 12.5% VAT, during normal office hours on all working days as indicated below.

Name of the Package & Contract Number	Issue of Bid Documents		Cost of The Bid Document	Date of Pre-Bid meeting	Last Date of Bid submission and date of opening
	From	To			
Extension of Sewerage System to North Kochi Part 2  <b>No-KCH -SS-03</b>	<u>07-02-'09</u>	<u>24-04-'09</u> <u>11:00 AM</u>	Rs.25,000/- + 12.5 % VAT	<u>26-03-09</u> <u>11.00 AM</u>	<u>24-04-'09</u> <u>14:30 PM</u>

Those bidders who desire to receive the Bidding Documents by courier, shall pay Rs.500 (Indian Rupees five hundred only) extra for delivery within India and Rs.3000/- (Indian Rupees three thousand only) extra for delivery to any place outside India. The fee and courier charges shall be paid in Indian Rupees or an equivalent amount in a freely convertible currency only in the form of demand draft favoring the Project Manager, Project Implementation Unit, Kerala Sustainable Urban Development Project, Kochi payable at Kochi, Kerala. No liability will be accepted for loss or late delivery.

8. Alternatively bid documents can be obtained through our website <http://www.ksudp.org> by clicking one e-bid wizard which will link to [www.tender wizard.com/KSUDP](http://www.tenderwizard.com/KSUDP) where electronic bid form is provided. Bidders who propose to use the e-bidding facility can access e-bid form (bid document) by making online request free of cost. Additional conditions and information can also be obtained from the above-mentioned site. The procedure of e-bidding would be clearly explained in the Bidding Document and the bidders can also obtain the clarification regarding e- bidding and the bidding documents from the office in the above-mentioned address as in Paragraph 6. The e-bid document downloaded by the interested bidders cannot be used for manual submission.
9. Aspiring bidders who wish to submit bids electronically may obtain the user ID and Password for participating in the E-tendering in KSUDP from the web site. [www.tenderwizard.com/KSUDP](http://www.tenderwizard.com/KSUDP), through link "Register me"
10. A pre-bid meeting for the packages will be organized for the interested bidders on dates mentioned in the above table for respective packages at 11.00 AM, in the office of the Project Manager, Project Implementation Unit, Kerala Sustainable Urban Development

Project, Kochi Corporation, Kochi. Interested bidders may choose to attend the pre bid meeting at their own expenses.

11. Sealed bids must be delivered to the address mentioned above under para 6 on or before **13:00 hours on the date mentioned in the above table**. All bids must be accompanied by the specified bid security as part of the bid, which shall remain valid for a period of 180 (one hundred and eighty) days beyond the opening of the bid. The bid security shall be in the form of Unconditional Bank Guarantee, Demand Draft or Term deposit issued by Nationalized/ Scheduled Bank in India in favour of the **Project Manager, PIU, Kochi**. Late bids shall be rejected

Bids will be opened immediately thereafter at **14:30 hours on the same day** and at the same place in the presence of the bidders or bidders' authorised representatives who choose to attend. In the event of the specified date of bidding/opening being declared a holiday, the bids shall be received and opened at the same time and place on the next working day.

12. Electronic tendering help desk; KEONICS; Contact No. 91-80-40482000 Mobile: 09895424539.
13. Corrigendum (if any) will be published in the website as well as sent by e-mail/ hard copy (for those who choose hard copy of tender) for all modifications/ corrections if any.
14. KSUDP will not be responsible for any costs or expenses incurred by the bidders in connection with the preparation or delivery of the bids.
15. KSUDP reserves the right to modify the requirements as well as accept any bid or reject any or all bids, without assigning any reasons whatsoever.

**Project Manager  
Project Implementation Unit  
KSUDP, Kochi**

## LIST OF RECOMMENDED VENDOR FOR ELECTRICAL EQUIPMENTS

Sl. No	Item	Make
1.	Transformer / USS	KEL, Intrans, GEC, Kirloskar or equivalent
2.	11 KV switchgear	ALSTHOM, GEC, Siemens, ABB, or equivalent
3.	415 V, PCC / PMCC/MC/MLDB/LDB	L& T, Siemens, GEC, Kirloskar or other CPRI approved with components specified or equivalent
4.	Cable	Gloster, Universal, Torrent, Asian or equivalent
5.	Air Circuit Breaker	L&T, GEC, Siemens or equivalent
6.	Motor	Siemens, NGEF, Crompton, Bharat Bijlee, Kirloskar, or equivalent
7.	HRC Fuses	Siemens, GEC , EE, L&T or equivalent
8.	Contactora	L&T, Siemens, Telemech, Kirloskar (Lovato), or equivalent
9.	Relays	ALSTOM, English Electric, ABB, Easun Reyrolle or equivalent
10.	Bi-metal Relays	Siemens, L&T, Kirloskar (Lovato) or equivalent
11.	Meters	GEC, Automatic Electric, SIMCO or equivalent
12.	Earth Leakage Circuit Breaker	MDS, Merlin Gerin, L & T (Hagger) or equivalent
13.	Miniature Circuit Breaker	MDS, Merlin Gerin, L & T (Hagger) or equivalent
14.	Luminaires	Philips, Crompton, GE Apar, Wipro or equivalent

- |     |                           |  |
|-----|---------------------------|--|
| 15. | Power Capacitor           | L & T, Crompton, NGEF, or equivalent                   |
| 16. | D.G. Set (With AMF Panel) |  |
|     | i) Engine                 | Cummins, Caterpillar, Leyland, Kirloskar or equivalent |
|     | ii) Alternator            | KEL, Stanford, Trident, L. S or equivalent             |
|     | iii) AMF Panel            | Company make - inbuilt panel.                          |